

# PATENT ABSTRACTS OF JAPAN

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## (54) LIQUID JET RECORDING APPARATUS

### (57)Abstract:

**PURPOSE:** To record an image increased in the faithfulness of the response to a recording signal and high in resolving power and quality at a high speed in a liquid jet recording apparatus, by providing an opening separate from an emitting port on a liquid flowline.

**CONSTITUTION:** An opening 119 separate from an orifice 108 is provided in order to prevent the non-stabilization in the emission of a liquid from the orifice caused by such a state that air bubbles are stayed in the deep part (in the vicinity of a front wall plate 103) of a liquid flowline 118 during ink filling and achieves an auxiliary function for venting a part of air present in the liquid flowline during ink filling and not venting only from the orifice 108. The liquid flowline between the orifice

108 and the opening 119 efficiently performs the emission of the liquid from the orifice 108 and, in order to prevent the emission of the liquid from the opening 119 when heat energy is imparted to the liquid from the heat acting surface 115, the shape of a partition wall 117 may be determined so as to make the liquid flowline narrow. One or more of the opening 119 is usually provided to the deepest part of the liquid flowline, that is, in close vicinity of the front wall plate 103 and the diameter thereof is pref. made smaller than that of the orifice 108.

